

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims

1-31. (Canceled)

32. (New) A septum housing for an infusion device, comprising a tubular element accommodating a septum, the septum being pierceable by a needle and being radially compressed in the septum housing to provide a fluid-tight seal between the septum and the septum housing.

33. (New) The septum housing according to claim 32, wherein at least one end of the tubular element provides a substantially partial enclosure over one surface of the septum.

34. (New) The septum housing according to claim 33, wherein one end of the tubular element is open and leaves the surface of the septum exposed.

35. (New) The septum housing according to claim 32, further comprising an integrally formed cannula bushing.

36. (New) The septum housing according to claim 32, wherein the septum is fixed to inner surfaces of the septum housing by friction.

37. (New) An infusion device comprising

a septum housing that includes a tubular element accommodating a septum, the septum being pierceable by a needle and being radially compressed in the septum housing to provide a fluid-tight seal between the septum and the septum housing, and

a base element that includes a mounting surface, a distal end of the septum housing that faces away from a surface on which the infusion device is mounted constituting a part of an outer distal surface of the infusion device.

38. (New) The infusion device according to claim 37, wherein one end of the tubular element provides a substantially partial enclosure over one surface of the septum, the end of the tubular element constituting a distal end of the septum housing.

39. (New) The infusion device according to claim 37, wherein the septum housing is fixed to the base element by welding.

40. (New) The infusion device according to claim 39, wherein the welding is ultrasonic welding.

41. (New) The infusion device according to claim 37, wherein the septum housing is fixed to the base element by a snap-lock.

42. (New) A method of manufacturing an infusion device having
a septum housing that includes a tubular element
accommodating a septum, the septum being pierceable by a needle
and being radially compressed in the septum housing to provide a
fluid-tight seal between the septum and the septum housing, and
a base element that includes a mounting surface, a distal
end of the septum housing that faces away from a surface on which
the infusion device is mounted constituting a part of an outer
distal surface of the infusion device, the method comprising the
following steps:

providing the septum housing by mounting the septum inside
the tubular element,

inserting the septum housing in a recess in the base element
such that a fluid transfer volume is formed between the septum
housing and a lower wall of the recess, the fluid transfer volume
including an inlet for fluid and an outlet communication with a
cannula, and

fixing and fluid sealing the septum housing to the base
element.